

REFERENCE

2526B TELEPHONE SET

1. GENERAL

1.01 This section provides identification, installation, connection, and maintenance information for the 2526B telephone set.

2. IDENTIFICATION

2.01 The 2526B telephone set is a weatherproof TOUCH-TONE® telephone set for use as a central office or PBX station at outdoor locations.

Ordering Guide

2.02 A complete telephone set consists of a housing, telephone set base, and its associated faceplate all of which must be ordered as follows:

- Base, Set, Telephone, 2526B
- Faceplate (Refer to Table A for code number)
- Housing, 526A

2.03 Replaceable components for the 2526B telephone set:

- P-26E488 Hook and Plunger Assembly
- Cord, Handset, H4CJ-3
- Dial, 35A3A
- Handset, G3AR-3
- Network, 425E
- Ringer, J1A

2.04 Associated Apparatus or Equipment (order separately):

- Bracket, 29D
- Protector, 123A1A

2.05 Optional Components (order separately):

- P-90D061 Guard Assembly (see note with Table E)

TABLE A

FACEPLATE CODE NUMBER

FACEPLATE CODE NUMBER	INTENDED USE	
	TELEPHONE SET	OPTIONAL (KIT TYPE) FEATURES
253A2	2526B (Without Dial)	Microswitch
253C1	2526B (TOUCH-TONE dial)	Single Line Service With or Without Exclusion
253C2		Two Line Pickup Switch
253C3		Circuit Lock
253C4		Circuit Lock and Two Line Pickup Switch

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- Refer to Table B for options provided in kit form.

Design Feature

2.06 526A Housing Assembly (Fig. 1):

- Overall size 7 inches wide, 13 inches high, and 6-1/2 inches deep.
- Die cast door and housing (gray finish).
- Detent in hinges to hold door in full open position.
- Door self-closing once released from hinge detent.
- Basic housing is equipped with permanent magnetic catch and strike plate.
- Hole provided in door for installation of mechanical lock (D-180382 Kit of Parts) which replaces the magnetic catch.
- Holes provided for mounting housing to 29D bracket or directly to suitable mounting surface.
- Housing supplied with 1/2-inch pipe plugs inserted in top and bottom tapped holes for conduit installation.

- Hole with grommet insert provided in back of housing as alternate entrance point for line and ground wire.
- Removable bottom plate has screen covered holes to increase ringer audibility.

2.07 2526B Telephone Set Base:

- Equipped with 12-button TOUCH-TONE dial
- Can be modified for use as rotary dial or manual telephone set.
- Transmission characteristics equivalent to other 500-type sets.
- Wired for single line service can be modified to provide: Two-line service, exclusion feature, lock to control electrical circuit, and microswitch for using telephone set at TD2 radio towers.
- All components mounted on mounting plate for installation in 526A housing.
- Replaceable network.
- Mounting holes provided for mounting 123-type protector directly below line switch assembly.

TABLE B

OPTIONAL FEATURE KITS FOR 2526-TYPE TELEPHONE SETS

KIT OF PARTS NUMBER	KIT COMPONENTS	INTENDED USE
D-180382	P-48V456 Lock Assembly (Includes Key) P-48V420 Strike Plate	Mechanical Lock for 526A Housing Door
D-180383	P-27E053 Exclusion Switch Arm P-180950 Screws (two) P-27E057 Hook and Plunger Assembly	Provide Exclusion Feature
D-180384	P-48V457 Switch and Arm Bracket P-44E421 Screws (two)	Provide Two Line Pick-Up Feature
D-180385	P-48V458 Circuit Lock Assembly P-43A376 Screws (two)	Disables Dial on 526B Telephone Set
D-180386	P-48V459 Microswitch Assembly P-92N033 Terminal Assembly P-43A376 Screws (four)	TD2 Radio Towers

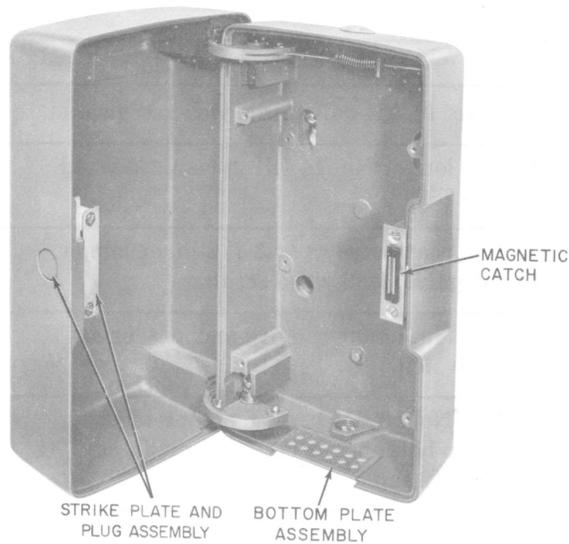


Fig. 1—526A Housing Assembly

- Terminal board equipped with 12 screw terminating points mounted between dial mounting brackets.
- Holes provided in right dial mounting bracket for installation of circuit lock or microswitch kits.

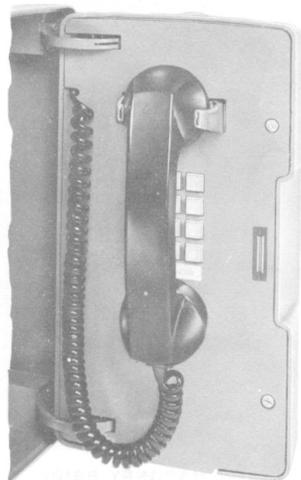


Fig. 2—2526B Telephone Set

3. INSTALLATION

3.01 Consider the following when selecting a location for the instrument:

- Safety for yourself, customer, and maintenance personnel.
- Convenience to the user.
- Obstruction to pedestrian and vehicular traffic.
- Space requirements (allowing for door to open properly).
- General appearance of instrument and exposed wire and cable.

3.02 The four holes used to fasten the housing to a 29D bracket can also be used with the appropriate fasteners to secure the housing directly to a mounting surface.

3.03 Mount 526A housing when using a 29D bracket as follows:

- (1) Fasten bracket to flat surface using one fastener (supplied locally) in each bracket arm as far from center as possible (Fig. 3).
- (2) Fasten bracket to narrow or round surface using the 3/8-inch holes centered at top and bottom of bracket.
- (3) Housing has to be mounted on 29D bracket before the telephone set base is installed in the housing (bolts and lockwashers for mounting telephone set to bracket are furnished with 29D brackets).

3.04 After the housing is properly mounted line and ground wires should be protected with 1/2-inch rigid conduit. Threaded entrance holes are provided at top and bottom of housing for conduit installation.

3.05 Telephone set base is fastened in the 526A housing with the three screws provided with the base.

3.06 Provisions are made to install a 123-type protector on the mounting plate of the telephone set base. The protector is mounted

**TABLE C
FASTENERS FOR 29D BRACKET**

SURFACE	QUAN	FASTENERS
Wood	4	1-1/2 in. No. 14 RH galvanized wood screws
Wood poles	4	2-1/2 in. or longer No. 14 RH galvanized wood screws
Wood poles (where diameter of pole is 8 inches or less)	2	5/16 x 3 in. coach screws or 2-1/2 in. or longer No. 14 RH galvanized wood screws
Finished masonry, brickwork, concrete, etc	4	5/16 x 2-1/4 in. hammer drive anchors, or approved equivalent
Solid metal — metal fences, columns, etc*	4	1 x 5/16 in. No. 18 RH brass machine screws. Drill and tap holes using 17/24 in. drill and 5/16 in. No. 18 tap
Hollow tile, corrugated metal, plaster board, etc	4	1/4 x 4 in. RH toggle bolts

* Iron straps, bolts, etc may be used where local instructions permit. Attach telephone set securely.

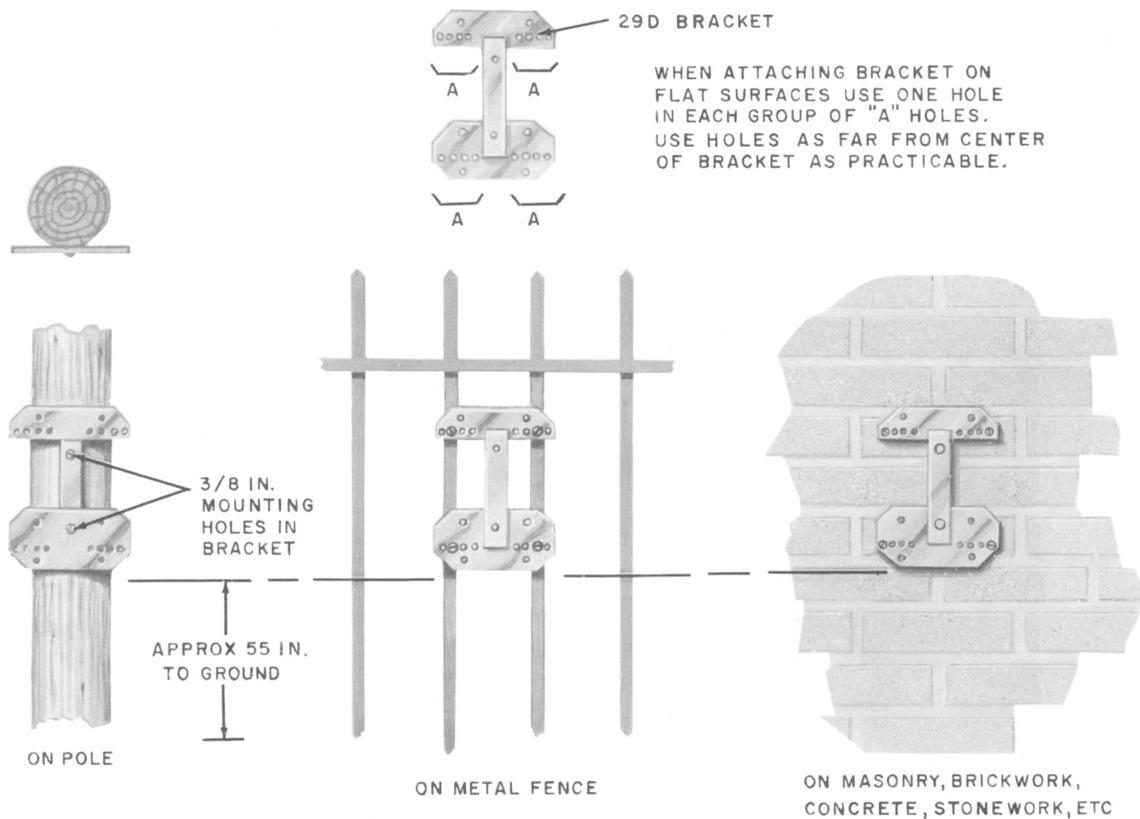


Fig. 3—29D Bracket Mounted on Various Surfaces

between the line switch assembly and the dial brackets.

3.07 No provisions are made for external control of the ringer volume. After all connections are made and before the faceplate is installed make the necessary circuit tests and adjust the ringer volume.

3.08 If the handset cord should extend beyond the bottom of the housing and may be susceptible to damage when closing the door use the slot in the faceplate to restrict the usable length of cord.

THINK *Exercise caution so that any excess cord stored behind the faceplate will not interfere with the operation of the telephone set.*

3.09 Faceplate is fastened to housing with four captive screws.

3.10 Install the mechanical door lock (D-180382 Kit of Parts, Fig. 4) as follows:

- (1) Remove magnetic catch and replace with strike plate from kit of parts. Reuse screws from magnetic catch to secure strike plate.
- (2) Remove strike plate and plug assembly from door.
- (3) Position lock and bracket assembly in door and secure with same screws that held the strike plate.
- (4) The door lock is designed to be self-locking and should be tested for proper operation. The customer should be made aware of this feature.

3.11 Install the exclusion feature (D-180383 Kit of Parts, Fig. 5) as follows:

- (1) Remove standard line switch and replace with line switch and plunger assembly from the kit of parts.
- (2) Mount exclusion switch above left dial bracket using screws furnished with the kit of parts.
- (3) Refer to Fig. 10 for connection information.

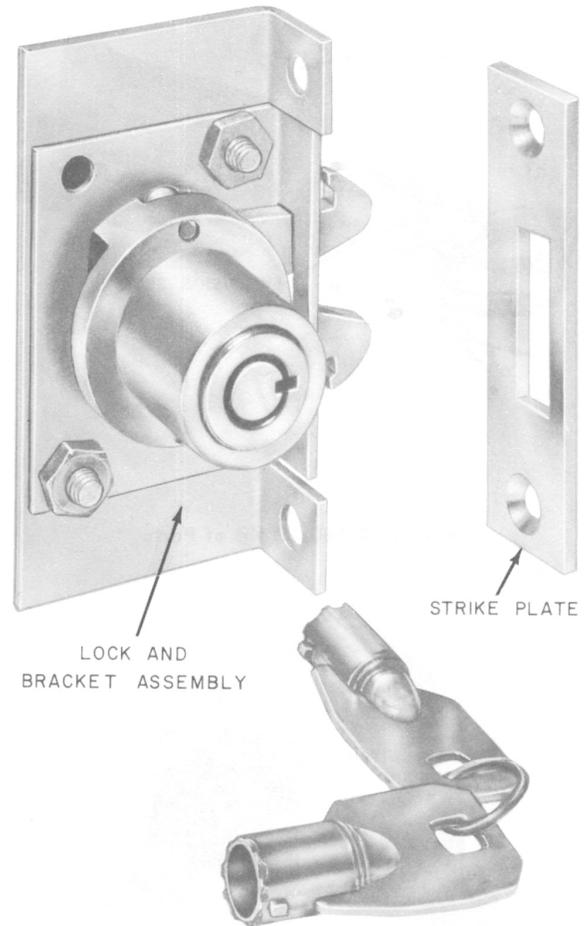


Fig. 4—D-180382 Kit of Parts

- (4) Test exclusion switch for proper mechanical operation by pulling out on the line switch plunger.

3.12 Install the two-line service (D-180384 Kit of Parts, Fig. 6) as follows:

- (1) Mount the switch bracket to the mounting plate of the telephone set base directly below the dial bracket using two screws provided.
- (2) Refer to Fig. 10 for connection information.
- (3) Install a faceplate with the hole provided for the two-line switch (refer to Table A for proper faceplate code).

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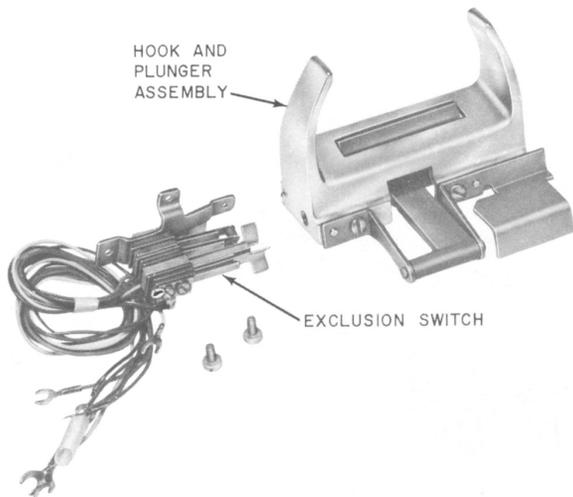


Fig. 5—D-180383 Kit of Parts

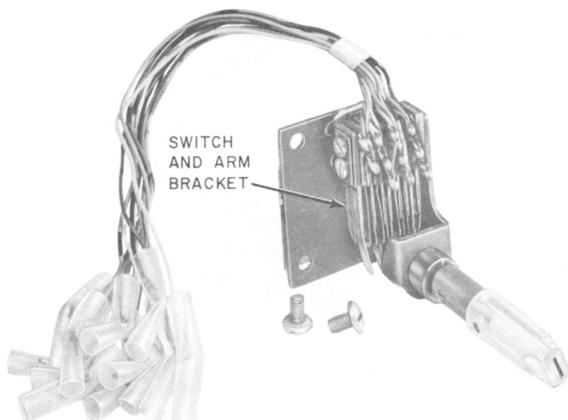


Fig. 6—D-180384 Kit of Parts

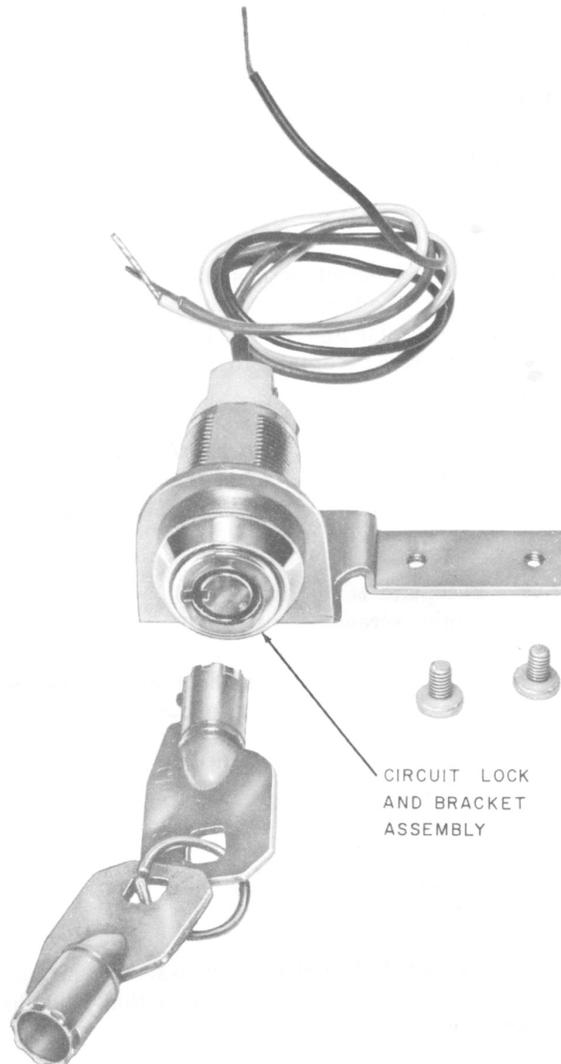


Fig. 7—D-180385 Kit of Parts

3.13 Install the circuit lock (D-180385 Kit of Parts Fig. 7) as follows:

- (1) Remove dial from dial mounting brackets.
- (2) Mount bracket for circuit lock to outside of right dial mounting bracket.
- (3) Refer to Fig. 10 for connection information.
- (4) Reinstall dial on mounting bracket.

(5) Install faceplate with hole provided for the circuit lock (refer to Table A for proper faceplate code).

3.14 Installation of the microswitch (D-180386 Kit of Parts, Fig. 8) is the same as the circuit lock covered in 3.13.

3.15 If the 2526B telephone set is equipped with the microswitch and used with TD2 radio

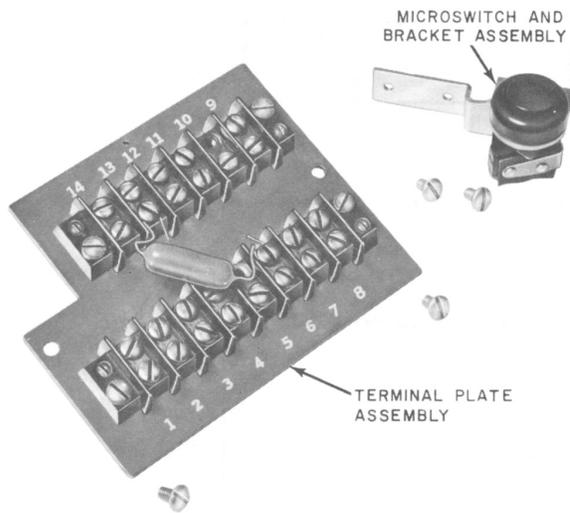


Fig. 8—D-180386 Kit of Parts

the dial should be removed and the proper faceplate installed (refer to Table A for faceplate code).

3.16 The terminal plate assembly (provided with microswitch kit) replaces the terminal strip located between the dial brackets. Refer to Fig. 10 for microswitch connections and Table F for telephone set modifications when used with TD2 radio.

3.17 The polarity guard assembly should be mounted on the left dial bracket and secured with the dial mounting screw. Refer to Table E for connection information.

4. MAINTENANCE

4.01 Remove the faceplate to perform any circuit testing, ringer adjusting, or maintenance.

4.02 Remove dial from mounting bracket to check for loose or broken connections on the terminal strip.

4.03 Refer to Ordering Guide for list of replaceable components.

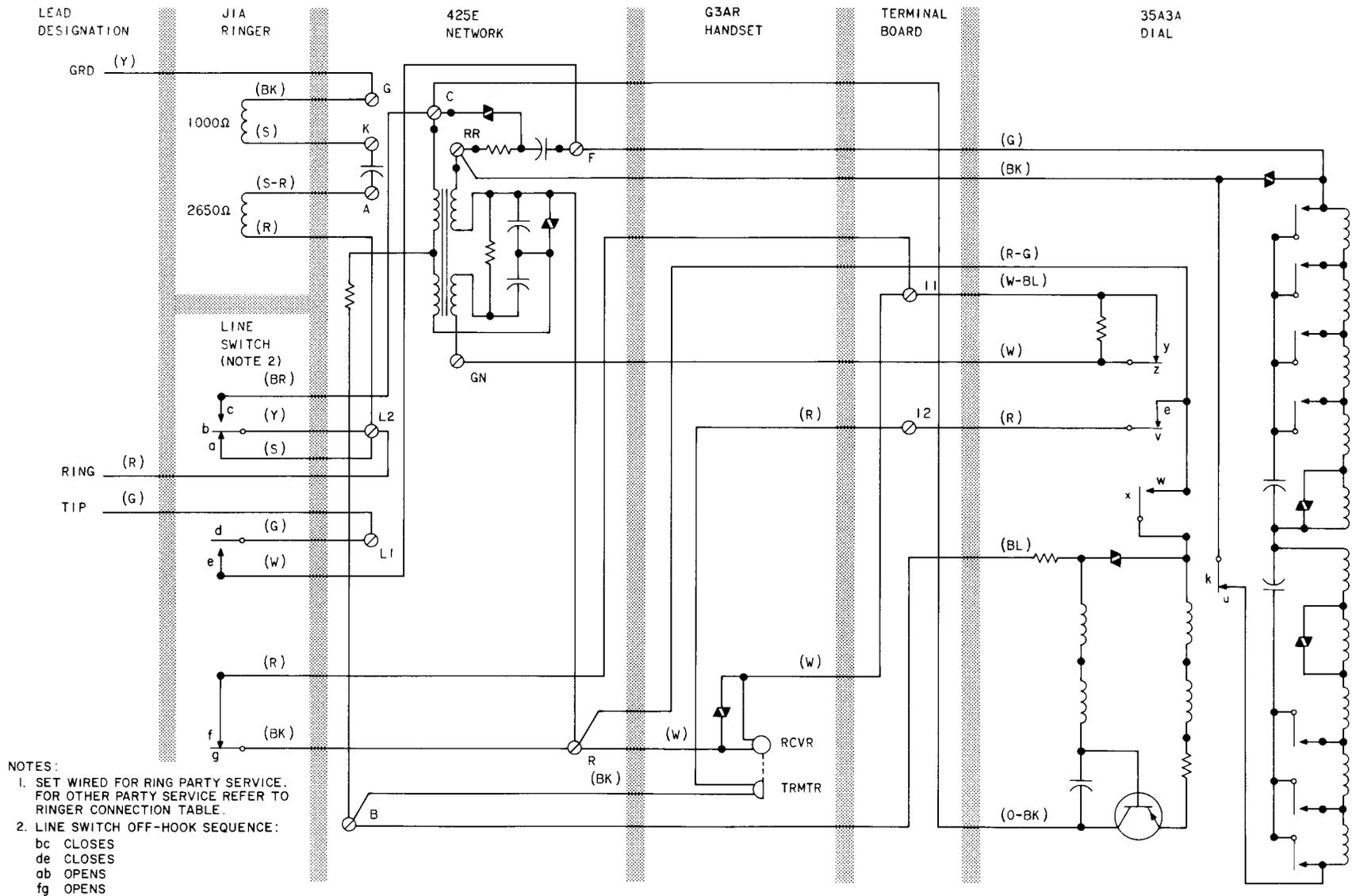


Fig. 9—2526B Telephone Set, Connections

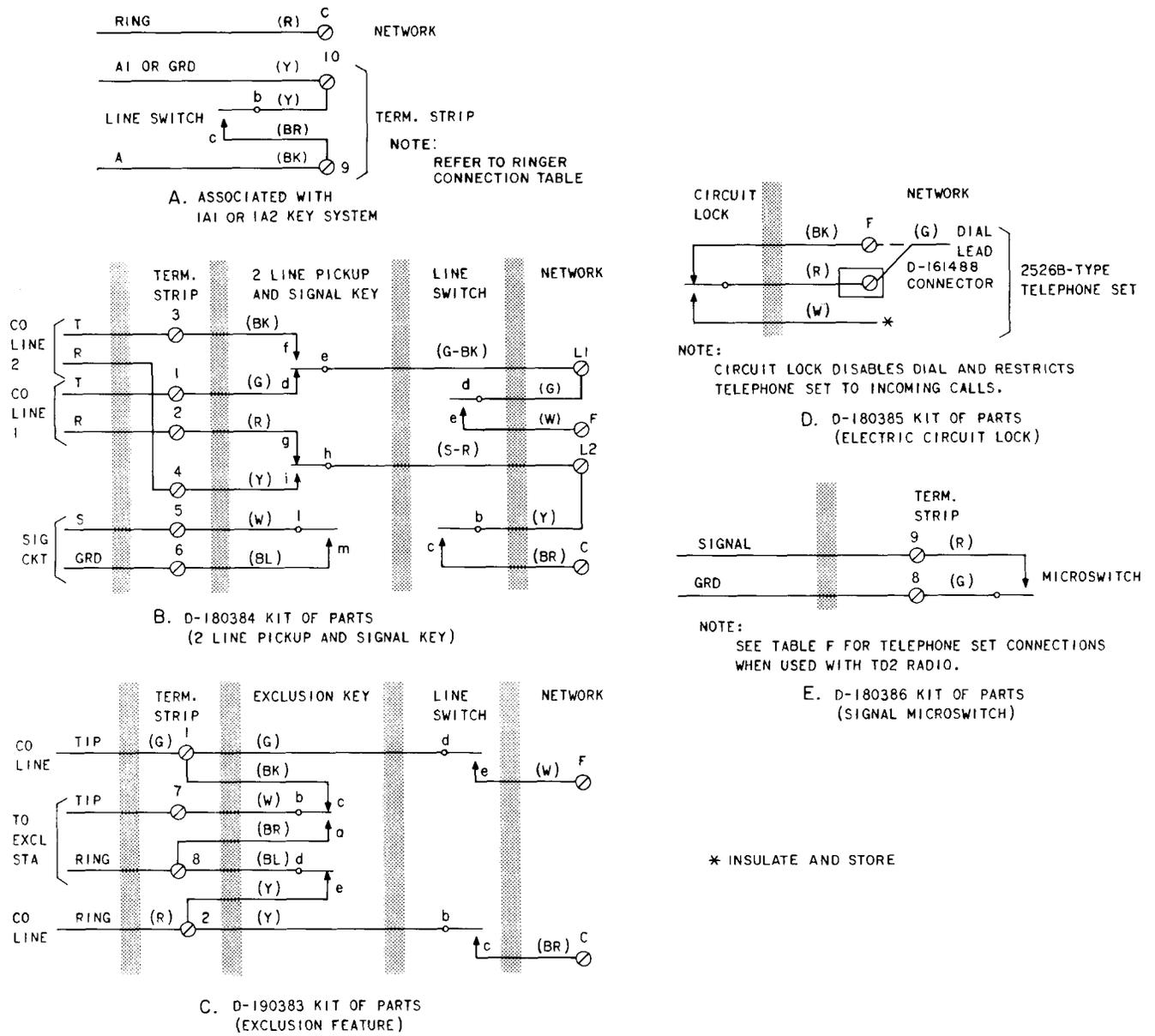


Fig. 10—Connections for Optional Features

TABLE D
RINGER CONNECTIONS

WIRE OR LEAD	COLOR	INDIV. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT. GROUND	IDENT. GROUND	
					1000Ω	2650Ω
Ringer Leads	R	L2*	L2	L1	K	G
	BK	L1	G	G	G	K
	S	K	K	K	B	B
	S-R	A	A	A	B	B
Line Switch	S	L2	L2	L2	A	A

* Terminate R ringer lead on C of network when associated with 1A1 or 1A2 key system.

TABLE E
POLARITY GUARD CONNECTIONS
(P-90D061 GUARD ASSEMBLY)

LEAD		REMOVE FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Dial	BK	RR		T
Line Switch	BR	C		S
Polarity Guard	G W		RR C	

Note: For use when specified by local instructions for end-to-end signaling installation.

TABLE F
2526-TYPE TELEPHONE SET CONNECTION
MODIFICATIONS FOR USE WITH TD2 RADIO

COMPONENT OR LEAD	LEAD OR WIRE	TELEPHONE SET	
		2526B (NOTE 2)	
	COLOR	REMOVE FROM NETWORK	CONN. TO TERM. STRIP
Receive Ckt	W* BL*		L1† 11
Transmit Ckt	W* O*		12 6
Receiver	W W	R GN	11 10
Trmtr	R BK	R B	14 13
Line Switch	W Y BR S	F L2 C L2	10 12 14 ‡
Signal Ckt (See Fig. 11)	W* G*		9 8
Microswitch	R G		9 8

Note:

1. Disconnect from terminal board in telephone set and connect to proper terminal on replacement terminal strip which is part of the D-180386 Kit of Parts.
 2. The dial should be removed on 2526B telephone sets (use 253A2 faceplate).
- * 6 pair inside wiring cable.
† Terminal on network.
‡ Insulate and store.